

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07722 D T-33-29

SILICON NPN EPITAXIAL TYPE
(DARLINGTON POWER)**2SD549**

PULSE MOTOR DRIVE, HAMMER DRIVE APPLICATIONS.
SWITCHING APPLICATIONS.
POWER AMPLIFIER APPLICATIONS.

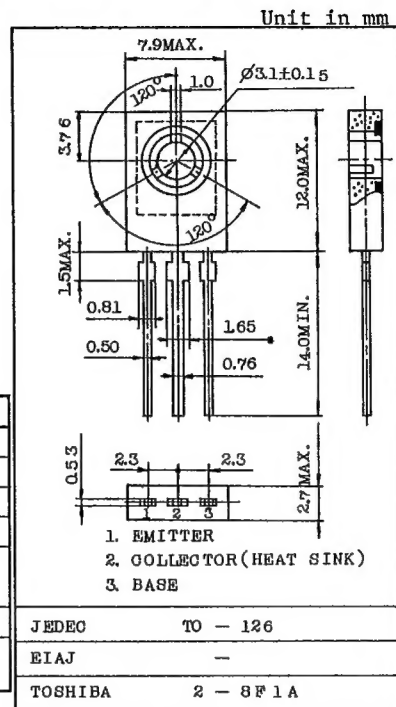
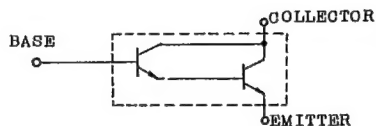
FEATURES:

- High DC Current Gain
: $h_{FE}=4000(\text{Min.})$ ($V_{CE}=2V$, $I_C=150\text{mA}$)
- Low Saturation Voltage
: $V_{CE}(\text{sat})=1.5V(\text{Max.})$ ($I_C=1A$, $I_B=1\text{mA}$)

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	I_C	1.5	A
Collector Power Dissipation ($T_a=25^\circ\text{C}$)	P_C	1.0	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

EQUIVALENT CIRCUIT



Mounting Kit No. AC46C
Weight : 0.72g

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=30V$, $I_E=0$	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=10V$, $I_C=0$	-	-	10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}$, $I_B=0$	30	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=2V$, $I_C=150\text{mA}$	4000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE}(\text{sat})$	$I_C=1A$, $I_B=1\text{mA}$	-	-	1.5	V
Base-Emitter Saturation Voltage	$V_{BE}(\text{sat})$	$I_C=1A$, $I_B=1\text{mA}$	-	-	2.2	V
Switching Time	Turn-on Time	t_{on}	-	0.18	-	μs
	Storage Time	t_{stg}	-	0.6	-	
	Fall Time	t_f	-	0.3	-	

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